

Title (en)  
DRIVE ASSEMBLY FOR WIND TURBINES

Title (de)  
KRAFTÜBERTRAGUNGSEINRICHTUNG FÜR WINDTURBINEN

Title (fr)  
ENSEMBLE D'ENTRAÎNEMENT D'EOLIENNE

Publication  
**EP 1311759 B1 20121107 (EN)**

Application  
**EP 01954251 A 20010803**

Priority  
• GB 0020014 A 20000815  
• GB 0101715 A 20010123  
• IB 0101395 W 20010803

Abstract (en)  
[origin: WO0214690A1] A drive assembly for a wind turbine comprises a rotor hub (14), supporting structure such as a turbine nacelle (15), a planetary type gear transmission unit (11) comprising sun (27), planet (25) and ring (24) gears and a planet carrier (28), said ring gear being non-rotatably secured to said supporting structure (15), a main bearing (23) which rotatably supports the rotor hub (14) and planet carrier (28) relative to said ring gear and supporting structure, and said drive assembly comprising two substantially independent force transmission paths for transmission of forces reacting with forces exerted by the wind turbine rotor hub, a first of said force transmission paths acting from the rotor hub (14) via said main bearing (23) to the supporting structure (15) primarily for transmission of overhang load forces and bending moment forces and a second of said force transmission paths acting from the rotor hub (14) via said planet carrier (28) primarily for transmission of rotational forces.

IPC 8 full level  
**F03D 11/02** (2006.01); **F03D 1/00** (2006.01); **F16C 19/38** (2006.01); **F16C 33/58** (2006.01); **F16C 35/063** (2006.01); **F16H 1/28** (2006.01)

CPC (source: EP US)  
**F03D 1/00** (2013.01 - EP US); **F03D 9/25** (2016.05 - EP US); **F03D 15/00** (2016.05 - EP US); **F03D 15/10** (2016.05 - EP US); **F03D 80/70** (2016.05 - EP US); **F05B 2260/40311** (2013.01 - EP US); **F16C 19/386** (2013.01 - EP US); **F16H 2001/289** (2013.01 - EP US); **Y02E 10/72** (2013.01 - EP US)

Citation (examination)  
EP 0811764 A1 19971210 - AERODYN ENERGIESYSTEME GMBH [DE]

Cited by  
WO2016155741A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**WO 0214690 A1 20020221**; AU 7659301 A 20020225; CN 1295432 C 20070117; CN 1447880 A 20031008; DE 01954251 T1 20050504; DK 1311759 T3 20130107; EP 1311759 A1 20030521; EP 1311759 B1 20121107; ES 2228292 T1 20050416; ES 2228292 T3 20130212; JP 2004506845 A 20040304; JP 4308516 B2 20090805; US 2004038770 A1 20040226; US 2006205561 A1 20060914; US 7011598 B2 20060314; US 7335128 B2 20080226

DOCDB simple family (application)  
**IB 0101395 W 20010803**; AU 7659301 A 20010803; CN 01814244 A 20010803; DE 01954251 T 20010803; DK 01954251 T 20010803; EP 01954251 A 20010803; ES 01954251 T 20010803; JP 2002519799 A 20010803; US 34157506 A 20060130; US 34467303 A 20030904